

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***B.E/B.TECH DEGREE END SEMESTER THEORY EXAMINATIONS, NOV/DEC 2025***Fifth Semester**Biomedical Engineering***CBM358 - Medical Waste Management***Regulations - 2021**Duration : 3 Hrs**Maximum : 100 Marks***PART - A (ANSWER ALL QUESTIONS) (Marks 10*2=20)**

<i>Q.No</i>	<i>Questions</i>	<i>BTL</i>	<i>CO</i>	<i>Marks</i>
1.	Define hazard control in healthcare settings.	L1	1	2
2.	List two functions of workers' compensation programs.	L2	1	2
3.	List any two major sources of biomedical waste.	L2	2	2
4.	Explain any two hazards of biomedical waste.	L1	2	2
5.	Define OSHA hazard communication standard.	L1	3	2
6.	How sharps are disposed?	L1	3	2
7.	Define slip, trip, and fall hazards.	L1	4	2
8.	Infer the personal protective measures in electrical safety.	L2	4	2
9.	State one key requirement of OSHA's Bloodborne Pathogens Standard.	L2	5	2
10.	What is meant by healthcare-associated infections (HAIs)?	L1	5	2

PART - B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a i Explain the steps involved in hazard analysis and hazard correction.	L2	1	8
	ii Explain the responsibilities of employees and management in hazard control practices.	L2	1	8
	Or			
	b i Explain the role of ergonomics in preventing occupational hazards.	L2	1	8
	ii Explain the organizational functions that support accident prevention.	L2	1	8
12.	a i Outline the classification and categories of biomedical waste as per standard guidelines.	L2	2	8
	ii Explain the hazards of biomedical waste and their impact on healthcare workers and the community.	L2	2	8
	Or			
	b i Explain various methods of treatment and disposal of biomedical waste.	L2	2	8
	ii Explain the steps involved in biomedical waste handling, collection, storage, and transportation.	L2	2	8

13.	a	Explain the OSHA Hazard Communication Standard in detail. Analyze its role in ensuring safe handling of hazardous substances in healthcare facilities.	L4	3	16
	Or				
	b	Examine the medical gas systems and respiratory protection in healthcare. Analyze their importance in minimizing risks to both patients and healthcare workers.	L4	3	16
14.	a	Categorize the role of Facility Guidelines Institute (FGI) in promoting safety standards. Analyze how these guidelines impact healthcare facility safety management.	L4	4	16
	Or				
	b	Discuss in detail the safety concerns in scaffolding, fall protection, and confined spaces. Analyze how control of hazardous energy and compressed air safety measures reduce risks in facility operations.	L4	4	16
15.	a	Discuss the importance of healthcare immunizations and infection control measures. Analyze how CDC guidelines support prevention of opportunistic infections and tuberculosis in healthcare settings.	L4	5	16
	Or				
	b	Discuss the role of quality improvement tools and strategies in enhancing patient-centered healthcare. Analyze their impact on medication safety and reduction of healthcare-associated infections.	L4	5	16